

**Notice of Allowability**

Application No.

10/612,805

Examiner

Paulos M. Natnael

Applicant(s)

WESTWATER, RAYMOND JOHN

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to received 7/20/05.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 7/2/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_



Paulos M. Natnael  
Primary Examiner  
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## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 1-22 are allowed.
2. The following is an examiner's statement of reasons for allowance: the prior art fails to disclose a combination of the following limitations comprising: a method for converting initial digital video data having a method for converting initial digital video data having a format including an input sequence of pixels extending in a first direction at a first spacing into output digital video data having a format including an output sequence of pixels extending in said first direction at a second spacing, different from said first spacing, wherein said method comprises: transforming coordinate values of a first sequence of pixels within said input sequence of pixels into a first transformation function by applying a decorrelating transform to said coordinate values of said first sequence of pixels, wherein applying said decorrelating transform to said coordinate values of said first sequence of pixels removes a statistical correlation between coordinate values of sequentially adjacent pixels within said first sequence of pixels and determining coordinate values for generating a second sequence of pixels forming a portion of said output sequence of pixels by evaluating, at locations of pixels sequentially adjacent in said first direction at said second spacing, a function formed by applying an inverse of said decorrelating transform to said first transformation function, as in claims 1 and 11; and,  
  
a method for converting a sequence of initial digital video frames having an initial

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format into a sequence of output digital video frames having an output format, different from said initial format, wherein said initial format includes a first pixel spacing between adjacent pixels along scan lines, a first line spacing between adjacent scan lines, and a first frame spacing between adjacent frames, wherein said output format includes a second pixel spacing between adjacent pixels along scan lines, a second line spacing between adjacent scan lines, and a second frame spacing between adjacent frames, and wherein said method comprises, for an input sequence of pixels extending along each scan line in each frame within said initial digital video frames: transforming coordinate values of a first sequence of pixels within said input sequence of pixels into a first transformation function by applying a decorrelating transform to said coordinate values of said first sequence of pixels, wherein applying said decorrelating transform to said coordinate values of said first sequence of pixels removes a statistical correlation between coordinate values of sequentially adjacent pixels within said first sequence of pixels determining coordinate values by evaluating, at locations of pixels sequentially adjacent at said second pixel spacing, a function formed by applying an inverse of said decorrelating transform to said first transformation function; and generating a first intermediate sequence of digital video data including scan lines generated using said coordinate values determined by evaluating said function formed by applying an inverse of said decorrelating transform to said first transformation function, as in claim 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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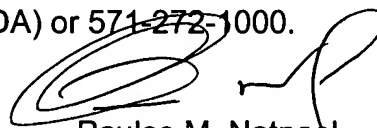
accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (571) 272-7354. The examiner can normally be reached on 9am - 5:30pm M,W, F (7am-3:30pm T,Th). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571)272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Paulos M. Natnael  
Primary Examiner  
Art Unit 2622



PMN  
June 6, 2021